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APPLICATION NO.	FILIN	IG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/050,716	01/18/2002		Gregg D. Sucha	A8287	6834	
75	590	09/07/2006		EXAM	EXAMINER	
SUGHRUE M 2100 Pennsylva		NGUYEN,	NGUYEN, DUNG T			
Washington, D			ART UNIT	PAPER NUMBER		
,				2828		
			DATE MAIL ED: 09/07/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/050,716	SUCHA ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Dung (Michael) T. Nguyen	2828					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - External after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1' SIX (6) MONTHS from the mailing date of this communication. The period for reply is specified above, the maximum statutory period verse to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status								
2a)	Responsive to communication(s) filed on 30 Ju This action is FINAL. 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.  nce except for formal matters, pro						
Dispositi	on of Claims							
5)□ 6)⊠ 7)⊠ 8)□	Claim(s) 30-34,36,54,55 and 57-59 is/are pend 4a) Of the above claim(s) 35,37-53 and 60-64 is Claim(s) is/are allowed.  Claim(s) 30-32,54 and 57-59 is/are rejected.  Claim(s) 33,34,36 and 55 is/are objected to.  Claim(s) are subject to restriction and/or on Papers	s/are withdrawn from consideration	on.					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See drawing(s) is objected if the drawing(s) is obj	e37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).					
Priority u	ınder 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2) 🔲 Notic 3) 🔲 Inforr	i(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa						

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#### **DETAILED ACTION**

#### Election/Restrictions

Applicant's election without traverse of Group I (claims 30-36, 54-55 and 57-59) in the reply filed on 06/30/06 is acknowledged.

## Response to Arguments

Applicant's arguments with respect to claims 30-36, 54-55 and 57-59 have been considered but are most in view of the new ground(s) of rejection.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 30, 54, and 57 are rejected under 35 U.S.C. 102(b) as being anticipated by DiGiovanni et al. (5237576). Col.2, l.23-34 discloses a method of stabilizing a short-pulse fiber laser (col.4, l.64-65), comprising:

isolating said fiber laser in a temperature-controlled enclosure (compact package) from an external environment; and operating the fiber laser within the enclosure while utilizing the enclosure to stabilize a repetition rate of the fiber laser (it is inherent that since the compact package of the fiber laser reduces its susceptibility to temperature fluctuations and therefore the repetition rate is also stabilized).

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## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 31-32, and 58-59 are rejected under 35 U.S.C. 103(a) as being unpatentable over DiGiovanni et al. (5237576) in view of Takara et al. (5646774).

With respect to claim 31, DiGiovanni et al. disclose all limitations of the claims except for the fiber laser being wrapped onto a fiber spool.

Takara et al. teach the fiber laser is wrapped onto a fiber spool 23 in Fig.5A.

it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide DiGiovanni et al. what is taught by Takara et al. in order to change the optical path length of the fiber laser.

With respect to claim 32, it is understood that the thermal expansion of the fiber spool must be matched to the optical fiber. Otherwise, the optical fiber laser would not operate properly.

With respect to claim 58, Takara et al. disclose in Fig.5A and col.8, 1.7-15 a piezoelectric transducer and a power supply 35 and col.8, 1.32-35 disclose the rep. rate is controlled.

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With respect to claim 59, Takara et al. disclose in Fig.1 and col.4, l.44-55 a phase lock

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loop circuit.

Allowable Subject Matter

Claims 33, 36 and 55 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

Communication Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dung (Michael) T Nguyen whose telephone number is (571) 272-

1949. The examiner can normally be reached on 8:30 - 17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Min Harvey can be reached on (571) 272-1835. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 306-3329.

Michael Dung Nguyen

Midal Don

01/29/06